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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/741,919	12/20/2000	Leonardus Hendricus Maria Sevat	PHN 17, 833	9608

24737 7590 06/05/2003

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EXAMINER

YENKE, BRIAN P

ART UNIT PAPER NUMBER

2614

DATE MAILED: 06/05/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.

09/741,919

Applicant(s)

SEVAT, LEONARDUS
HENDRICUS MARIA

Examiner

BRIAN P. YENKE

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on PreAmendment (12 Dec 00).
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 December 2000 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4, 7 & 8.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Drawings

1. The drawings are objected to because:

There is no labels/text description next to any of the numbered elements in all the Figures (Fig 1-4);

In Fig 2, element 203a (2nd instance, shown below element 203a), should be labeled 203b, as stated in the specification/and as shown in Fig 3.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

2. The disclosure is objected to because of the following informalities:

On page 6, line 31, the specification states "remote controls 215 and 215";

The specification should be amended to "remote controls 215 and [215] 216"

Appropriate correction is required.

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: "Multiple Window Display System Using At Least Two Remote Controls"

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9 and 11-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Kahn et al., US 5,793,361.

In considering claim 1,

a) *the claimed a display device having window means for displaying information in at least two windows of said display device* is met display system 16 which includes multiple windows/screens 18 (Fig 1)

b) *the claimed parameter control means for controlling a parameter of a respective one of said windows in response to a user supplied parameter control command* is met by computer system 14 which includes a processor 84, storage 82, memory 80 and screen buffers/drivers 86, where a real-time operating system 88 and application 90 run on the system (col 7, line 52-55) (Fig 3). Computer system 14 in response to a user entered indicated action (i.e. menu selection) via pointers 20 and 22, receives the commands via demodulator 50, where the computer system knows which applications are running in each portion of the display, and thus sorts out and delivers the appropriate applications to the appropriate portion of display (col 7, line 49-67).

c) *the claimed user operable window selection means for selecting a window to be controlled by said parameter control means* is met where via pointers 20 and 22, the

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user(s) can select a window portion(s) (Fig 1 as shown, portion 24 and 26), where the selected window are received by sensors 30 which are delivered to demodulator 50 which is part of the detection system (col 7, line 29-34).

d) *the claimed characterized in that the display system comprises at least two remote controls* is met by pointers 20 and 22 which includes pushbuttons or other activating mechanisms (Fig 1, col 4, line 4-11).

e) *the claimed display system comprising association means for associating a respective remote control with a respective window* is met by computer system 14 which knows which applications are running in each portion of the display, and thus sorts out and delivers the appropriate applications to the appropriate portion of display (col 7, line 49-67).

f) *the claimed window selection means being adapted to select the window in response to a parameter control command received from a remote control associated with the selected window* is met where the display identity detector (sensor 30) detect on which display the position of the pointer is aimed.

In considering claim 2,

The claimed the display device being capable of receiving information from different sources and displaying the information from each of said sources in a respective window, said parameter being the source of the information displayed in said respective window is met where the information displayed on the screens may be of any kind, including images, visual interfaces providing by graphical operating environments (e.g.

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Windows), menu driven programs, and command line interfaces. The display screen may show unrelated information or may be grouped to display related information (col 3, line 61 to col 4, line 3).

In considering claim 3,

The claimed in each respective remote control, window identification means for transmitting, along with a transmitted parameter control command, a signal indicative of a window associated with the respective remote control is met where the desired window is identified by the direction/position of the pointer (picked up by sensors 30) where the remote sends and identifies the window of interest in order to control a parameter of the selected window (menu selection).

In considering claim 4,

The claimed said association means comprising discrimination means for discriminating signals received from said at least two remote controls so as to determine from which remote control the receive signals originate is met by computer system 14 which knows which applications are running in each portion of the display, and thus sorts out and delivers the appropriate applications to the appropriate portion of display (col 7, line 49-67).

In considering claim 5,

The claimed said at least two remote controls arrange to transmit signals in accordance with different protocols, the discrimination means being arranged to recognize said different protocols is met where in the instance of multiple simultaneous users, the beam from each pointer would be coded for uniqueness possibly using spread spectrum

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where the computer system 14 (via display control system) activates the appropriate windows based on the particular remotes.

In considering claim 6,

The claimed said association means comprising in each respective remote control, remote control identification means for transmitting, along with a transmitted parameter control command, a signal identifying the respective remote control is met where the beam from each pointer would be coded for uniqueness possibly using spread spectrum where the computer system 14 (via display control system) activates the appropriate windows based on the particular remotes.

In considering claim 7,

The claimed window selection means being arranged to bypass said association means when only one window is displayed on the display device is met if only one screen is involved only a single detector is need to determine which user is transmitting (col 5, line 49-53).

In considering claim 8,

a) *the claimed window means for displaying information in at least two windows* is met by display system 16 which includes a plurality of windows 18 (Fig 1).

b) *the claimed parameter control means for controlling a parameter of a respective one of said windows in response to a user supplied parameter control command* is met by computer system 14 which includes a processor 84, storage 82, memory 80 and screen buffers/drivers 86, where a real-time operating system 88 and application 90 run on the system (col 7, line 52-55) (Fig 3). Computer system 14 in response to a user entered

indicated action (i.e. menu selection) via pointers 20 and 22, receives the commands via demodulator 50, where the computer system knows which applications are running in each portion of the display, and thus sorts out and delivers the appropriate applications to the appropriate portion of display (col 7, line 49-67).

c) the claimed user operable window selection means for selecting a window to be controlled by said parameter control means is met by users 10, 12 (fig 1) which select a window (arbitrary) 24 and 26 respectively in this instance, via remotes/pointers 20 and 22 respectively.

d) the claimed association means for associating a respective one of at least two remote controls with a respective window is met by computer system 14 which knows which applications are running in each portion of the display, and thus sorts out and delivers the appropriate applications to the appropriate portion of display (col 7, line 49-67).

e) the claimed window selection means being adapted to select the window in response to a parameter control command received from a remote control associated with the selected window is met where the display identity detector (sensor 30) detect on which display the position of the pointer is aimed.

In considering claim 9,

The claimed said association means comprising discrimination means for discriminating signals received from said at least two remote controls so as to determine from which remote control the receive signals originate is met by computer system 14 which knows

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which applications are running in each portion of the display, and thus sorts out and delivers the appropriate applications to the appropriate portion of display (col 7, line 49-67).

In considering claim 11,

a) the claimed association means for associating the remote control with a respective control with a respective window of a display device having window selection means which are adapted to select said respective window in response to a parameter control command received from the remote control is met where computer system 14 determines which remote is activating which screen based on the beam from each pointer would be coded for uniqueness possibly using spread spectrum where the computer system 14 (via display control system) activates the appropriate windows based on the particular remotes.

b) the claimed display device further comprising control means adapted to control a parameter of said respective window in accordance with said parameter control command is met by computer system 14 which controls a selected screen in response to the request of the user via a remote, where the computer knows which applications are running on each screen.

In considering claim 12,

The claimed window identification means for transmitting, along with a transmitted parameter control command, a signal indicative of a window associated with the remote control is met where the desired window is identified by the direction/position of the

pointer (picked up by sensors 30) where the remote sends and identifies the window of interest in order to control a parameter of the selected window (menu selection).

In considering claim 13,

The claimed said association means comprising remote control identification means for transmitting, along with a transmitted parameter control command, a signal identifying the respective remote control is met where the beam from each pointer would be coded for uniqueness possibly using spread spectrum where the computer system 14 (via display control system) activates the appropriate windows based on the particular remotes.

In considering claim 14,

a) *the claimed a user operably selecting a window* is met by users 10, 12 (fig 1) which select a window (arbitrary) 24 and 26 respectively in this instance, via remotes/pointers 20 and 22 respectively.

b) *the claimed controlling a parameter of said selected window in response to a user supplied parameter control command* is met by computer system 14 which includes a processor 84, storage 82, memory 80 and screen buffers/drivers 86, where a real-time operating system 88 and application 90 run on the system (col 7, line 52-55) (Fig 3).

Computer system 14 in response to a user entered indicated action (i.e. menu selection) via pointers 20 and 22, receives the commands via demodulator 50, where the computer system knows which applications are running in each portion of the display, and thus sorts out and delivers the appropriate applications to the appropriate portion of display (col 7, line 49-67).

c) *the claimed associating a respective one of at least two remote controls with a respective window* is met by computer system 14 which knows which applications are running in each portion of the display, and thus sorts out and delivers the appropriate applications to the appropriate portion of display (col 7, line 49-67).

d) *the claimed selecting the window in response to a parameter control command received from a remote control associated with the selected window* is met where the display identity detector (sensor 30) detect on which display the position of the pointer is aimed.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kahn et al., US 5,793,361.

In considering claim 10,

Kahn et al., does not explicitly recite the use of a television receiver as a display device. Kahn discloses the use of a CRT, for instance a raster scanned CRT (col 2, line 47-50). Kahn also discloses displaying information of any kind, including images, visual interfaces (e.g. Windows), menu driven programs and command line interfaces.

The examiner takes "OFFICIAL NOTICE" in regards to a television receiver as a display device. The use of a television receiver as a display is notoriously well known in the art, where the television receiver can be of multiple sizes/screens.

Therefore, it would have been obvious to one of ordinary skill in the art to modify Kahn et al., which discloses a display device which may use one or more screens utilizing one or more remotes (via users) to display information of any kind, by also using a television receiver as a display screen(s) in order to provide the users with additional images/graphical information.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Saitoh et al., US 5,414,471 discloses a system which utilizes two remotes (9 and 9') for selecting and exchanging main picture and sub-picture information in a multi-picture display;

Skinner, US 5,005,084 discloses a remote control TV system which utilizes multiple remote controls (Fig 1);

Blahut et al., US 5,663,756 discloses multiple remote controls which uses restricted access control (i.e. Parent vs Child remotes);

Allport, US 6,097,441 discloses a system for dual-display interaction where the remote incorporates a motion picture display in addition to the main display;

Diehl et al., US 5,870,380 discloses a system (TV, video) which receives signals from at least two remotes (Fig 2);

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Kuroiwa et al., US 5,715,020 discloses a system which utilizes two remote control units (Fig 40, Fig 20A).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (703) 305-9871. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, John W. Miller, can be reached at (703)305-4795.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist). Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703)305-4700.



BRIAN P. YENKE
Patent Examiner
Art Unit 2614



B.P.Y

June 1, 2003